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US PTO

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Modified PTO/SB/05 (11-00)  
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# UTILITY PATENT APPLICATION TRANSMITTAL

|                        |   |
|------------------------|---|
| Docket No.             | 008546USA   |
| First Inventor         | Jiping Li   |
| Title                  | HIGH THROUGHPUT MEASUREMENT OF VIA DEFECTS IN INTERCONNECTS |
| Express Mail Label No. | EV 448 866 585 US   |

(Only for new nonprovisional applications under 37 CFR 1.53(b))

PTO  
10/813407



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|  |   |   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
|--|---|---|---------------------|------|---|--|--|---------|-------------------------|--|--|--|---------------|--|--|------|-------------|-------|----|---------|-----|----------|-------|--|-----------|---------------|-------------------|-------------------|----------------------|-----------------------------------|--------|-----------|----------|--|---------------------|
| <b>APPLICATION ELEMENTS</b><br>See MPEP chapter 600 concerning utility patent application contents.  |   | <b>ADDRESS TO:</b> Mail Stop Patent Application,<br>Commissioner for Patents,<br>P.O. Box 1450, Alexandria, VA 22313-1450   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g. PTO/SB/17) (in duplicate)<br/>(Submit an original, and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages *76]<br/>(preferred arrangement set forth below)<br/>- Descriptive title of the Invention<br/>- Cross Reference to Related Applications<br/>- Statement Regarding Fed sponsored R &amp; D<br/>- Reference to sequence listing, a table, or a computer program listing appendix<br/>- Background of the Invention<br/>- Brief Summary of the Invention<br/>- Brief Description of the Drawings (if filed)<br/>- Detailed Description<br/>- Claim(s)<br/>- Abstract of the Disclosure</p> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total Sheets 21*]</p> <p>5. Oath or Declaration [Total Pages *3]<br/>a. <input checked="" type="checkbox"/> Newly executed (original or copy)<br/>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br/>(for continuation/divisional with Box 18 completed)<br/>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)</p> <p>6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 (3 pages)</p> |   | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission<br/>a. <input type="checkbox"/> Computer Readable Form (CRF)<br/>b. Specification Sequence Listing on:<br/>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or<br/>ii. <input type="checkbox"/> paper<br/>c. <input type="checkbox"/> Statements verifying identity of above copies</p>   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
|  |   | <b>ACCOMPANYING APPLICATION PARTS</b>   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
|  |   | <p>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet &amp; assignment (3 pages))</p> <p>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement (where there is an assignee) <input type="checkbox"/> Power of Attorney</p> <p>11. <input type="checkbox"/> English Translation document (if applicable)</p> <p>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations (5 Refs.)</p> <p>13. <input type="checkbox"/> Preliminary Amendment</p> <p>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br/>Should be specifically itemized</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s)<br/>(if foreign priority is claimed)</p> <p>16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>17. <input checked="" type="checkbox"/> Other<br/>Credit Card Payment Form (1 page)</p> |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| <p>18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:</p> <p><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No: *</p> <p>Prior application information: Examiner * Group / Art Unit: (group)</p> <p>For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.</p>  |   |   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| <p>19. CORRESPONDENCE ADDRESS</p> <p><input type="checkbox"/> Customer Number or <input checked="" type="checkbox"/> Correspondence address below</p> <p>(Insert Customer No. or Attach bar code label here)</p> <table><tr><td>Name</td><td colspan="3">Patent Counsel, MS/2061 Legal Affairs Dept.</td></tr><tr><td>Address</td><td colspan="3">Applied Materials, Inc.</td></tr><tr><td></td><td colspan="3">P.O. Box 450A</td></tr><tr><td>City</td><td>Santa Clara</td><td>State</td><td>CA</td></tr><tr><td>Country</td><td>USA</td><td>Zip Code</td><td>95052</td></tr><tr><td></td><td>Telephone</td><td>(408)773-0889</td><td>Fax (408)245-6270</td></tr></table> <table><tr><td>Name (Print/Type)</td><td>Omkar K. Suryadevara</td><td>Registration No. (Attorney/Agent)</td><td>36,320</td></tr><tr><td>Signature</td><td colspan="2">S. Omkar</td><td>Date March 29, 2004</td></tr></table>  |   |   |                     | Name | Patent Counsel, MS/2061 Legal Affairs Dept. |  |  | Address | Applied Materials, Inc. |  |  |  | P.O. Box 450A |  |  | City | Santa Clara | State | CA | Country | USA | Zip Code | 95052 |  | Telephone | (408)773-0889 | Fax (408)245-6270 | Name (Print/Type) | Omkar K. Suryadevara | Registration No. (Attorney/Agent) | 36,320 | Signature | S. Omkar |  | Date March 29, 2004 |
| Name   | Patent Counsel, MS/2061 Legal Affairs Dept. |   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| Address  | Applied Materials, Inc.                     |   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
|  | P.O. Box 450A                               |   |                     |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| City   | Santa Clara                                 | State   | CA                  |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| Country  | USA   | Zip Code  | 95052               |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
|  | Telephone                                   | (408)773-0889   | Fax (408)245-6270   |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| Name (Print/Type)  | Omkar K. Suryadevara                        | Registration No. (Attorney/Agent)   | 36,320              |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |
| Signature  | S. Omkar                                    |   | Date March 29, 2004 |      |   |  |  |         |                         |  |  |  |               |  |  |      |             |       |    |         |     |          |       |  |           |               |                   |                   |                      |                                   |        |           |          |  |                     |

# FEE TRANSMITTAL FOR FY 2004

Patent fees are subject to annual revision.

## Complete if Known

|                      |                |
|----------------------|----------------|
| Application Number   | UNKNOWN        |
| Filing Date          | FILED HEREWITH |
| First Named Inventor | Jiping Li      |
| Group Art Unit       | UNKNOWN        |
| Examiner Name        | UNKNOWN        |
| Docket No            | 008546USA      |

TOTAL AMOUNT OF PAYMENT

(\$ 1198

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge any underpaid fees and credit any overpayments to:

Deposit Account Number: 50-2263  
Deposit Account Name: Silicon Valley Patent Group LLP

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17  
☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed:

☐ Check ☒ Credit Card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description        | Fee Paid |
|----------------|-----------------|----------------|-----------------|------------------------|----------|
| 1001           | 770             | 2001           | 385             | Utility filing fee     | 770      |
| 1002           | 340             | 2002           | 170             | Design filing fee      |          |
| 1003           | 530             | 2003           | 265             | Plant filing fee       |          |
| 1004           | 770             | 2004           | 385             | Reissue filing fee     |          |
| 1005           | 160             | 2005           | 80              | Provisional filing fee |          |

SUBTOTAL (1) (\$ 770.00)

### 2. EXTRA CLAIM FEES

| Total Claims       | Extra Claims | Fee from below | Fee Paid       |
|--------------------|--------------|----------------|----------------|
| 32                 | 12           | x 18           | = \$216        |
| Independent Claims | 5            | - 3**          | 2 x 86 = \$172 |
| Multiple Dependent | 0            | 290            | = \$           |

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description   |
|----------------|-----------------|----------------|-----------------|---|
| 1202           | 18              | 2202           | 9               | Claims in excess of 20                                    |
| 1201           | 88              | 2201           | 43              | Independent claims in excess of 3                         |
| 1203           | 290             | 2203           | 145             | Multiple dependent claims, if not paid                    |
| 1204           | 88              | 2204           | 43              | **Reissue independent claims over original patent         |
| 1205           | 18              | 2205           | 9               | **Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 388.00)

\*\* or number previously paid, if greater; For reissues, see above.

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid |
|----------------|-----------------|----------------|-----------------|--|----------|
| 1051           | 130             | 2051           | 65              | Surcharge - late filing fee or oath  |          |
| 1052           | 50              | 2052           | 25              | Surcharge - late provisional filing fee or cover sheet                       |          |
| 1053           | 130             | 1053           | 130             | Non-English specification  |          |
| 1812           | 2,520           | 1812           | 2,520           | For filing a request for ex parte reexamination                              |          |
| 1804           | 920*            | 1804           | 920*            | Requesting publication of SIR prior to Examiner action                       |          |
| 1805           | 1,840*          | 1805           | 1,840*          | Requesting publication of SIR after Examiner action                          |          |
| 1251           | 110             | 2251           | 55              | Extension for reply within first month                                       |          |
| 1252           | 420             | 2252           | 210             | Extension for reply within second month                                      |          |
| 1253           | 950             | 2253           | 475             | Extension for reply within third month                                       |          |
| 1254           | 1,480           | 2254           | 740             | Extension for reply within fourth month                                      |          |
| 1255           | 2,010           | 2255           | 1,005           | Extension for reply within fifth month                                       |          |
| 1401           | 330             | 2401           | 165             | Notice of Appeal   |          |
| 1402           | 330             | 2402           | 165             | Filing a brief in support of an appeal                                       |          |
| 1403           | 290             | 2403           | 145             | Request for oral hearing   |          |
| 1451           | 1,510           | 1451           | 1,510           | Petition for a public use proceeding   |          |
| 1452           | 110             | 2452           | 55              | Petition to revive - unavoidable   |          |
| 1453           | 1,300           | 2453           | 650             | Petition to revive - unintentional   |          |
| 1501           | 1,330           | 2501           | 665             | Utility issue fee (or reissue)   |          |
| 1502           | 480             | 2502           | 240             | Design issue fee   |          |
| 1503           | 640             | 2503           | 320             | Plant issue fee  |          |
| 1460           | 130             | 1460           | 130             | Petitions to the Commissioner  |          |
| 1807           | 50              | 1807           | 50              | Processing fee for provisional applications                                  |          |
| 1806           | 180             | 1806           | 180             | Submission of Information Disclosure Statement                               |          |
| 8021           | 40              | 8021           | 40              | Recording each patent assignment per properties (times number of properties) | 40       |
| 1809           | 770             | 2809           | 385             | Filing a submission after final rejection (37 CFR § 1.129(a))                |          |
| 1810           | 770             | 2810           | 375             | For each additional invention to be examined (37 CFR § 1.129(b))             |          |
| 1801           | 750             | 2801           | 385             | Request for Continued Examination (RCE)                                      |          |
| 1802           | 900             | 1802           | 900             | Request for expedited examination of a design application                    |          |


Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

## SUBMITTED BY

Complete (if applicable)

|                   |   |                                   |        |           |                       |
|-------------------|---|-----------------------------------|--------|-----------|-----------------------|
| Name (Print/Type) | Omkar K. Suryadevara  | Registration No. (Attorney/Agent) | 36,320 | Telephone | (408) 982-8200 ext. 3 |
| Signature         |  |                                   |        | Date      | March 29, 2004        |

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